

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/24947

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : E21B 43/24
US CL : 166/270,272.2,371

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 166/270,271,272.2,272.3,369,371

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
East: ((heat\$3 with fluid\$1) same fractur\$3) and (\$2permeab\$5 with (increas\$3 great\$2))

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|------------------------------------|
| X | US 4,344,485 A (BUTLER) 17 August 1982 (17.08.1982), see entire document, especially Figs. 2-6. | 1-3, 5-9, 11, 12, 17-20, and 22-25 |
| A | US 3,500,913 A (CLOSMANN et al) 17 March 1970 (17.03.1970), see entire document, especially claim 1. | 3 |

Further documents are listed in the continuation of Box C.

See patent family annex.

| | | |
|---|-----|--|
| * Special categories of cited documents: | "T" | later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |
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| "O" document referring to an oral disclosure, use, exhibition or other means | | |
| "P" document published prior to the international filing date but later than the priority date claimed | | |

Date of the actual completion of the international search
27 December 2004 (27.12.2004)

Date of mailing of the international search report

10 MAR 2005

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